In this index citations are given of abstracts presented at meetings of the American Astronomical Society under the name of the first author.

ABELL, G.O.
Summary Paper: Education in Astronomy and the AAS. I, No.4, 333

ABHYANKAR, K.D.
Diffuse Reflection by a Semi-Infinite Non-conservative Rayleigh Atmosphere. I, No.2, 179

ABLES, H.D.
Electrographic Stellar Photometry. I, No.3, 231

Information Gains from Pre-Exposing Spectroscopic Plates. I, No.2, 179

ACTON, L.W.
Spectrum of the Crab x-Ray Source from 4 to 40 keV. I, No.3, 231

ADAMS, C.N.
Solutions of the Equations of Radiative Transfer by an Invariant Imbedding Approach. I, No.2, 180

ALBERT, D.B.
(See Courten, I, No.4, 338)

ALEXANDER, J.K.
(See Malitson, I, No.3, 252)
(See Weber, I, No.3, 265)

ALLEN, R.J.
A Method for the Measurement of Wide-Band Radio-Source Spectra Using Conventional Spectral-Line Receivers. I, No.2, 180

ANAND, S.P.S.
(See Martin, I, No.4, 354)

ANDERSON, J.D.
The Mass and Dynamical Oblateness of Venus. I, No.3, 231

ANGEL, J.R.P.
Polarization of Radiation from Thermal X-Ray Sources. I, No.2, 180

Polarization Study of the X Rays from Sco X-1. I, No.2, 181

Use of Highly Reflecting Crystals for Spectroscopy and Polarimetry in X-Ray Astronomy. I, No.4, 333

X-Ray Line Emission from Sco X-1. I, No.4, 333

ARNQUIST, W.N.
Coronal Structure from Polarization Measurements. I, No.3, 232

ARNY, T.
Formation of Gas Clouds in Galactic Nuclei. I, No.4, 333

ARP, H.
Distribution of Quasistellar Radio Sources on the Sky. I, No.3, 232

BAHCALL, J.N.
(See R. Davis, Jr., I, No.4, 339)

BAHNG, J.
Infrared Colors of Carbon Stars. I, No.3, 232

BAKOS, G.A.
The Ba II Line in Late-Type Stars. I, No.3, 233

BANDERMANN, L.W.
The Erosion of Particles in the Rings of Saturn. I, No.3, 233

BARDEEN, J.M.
Uniformly Rotating Disks in General Relativity. I, No.4, 333

BARKER, E.
(See Gray, I, No.2, 190)

BARNES, J.V.
(See Crawford, I, No.3, 238)

BARNOTHY, J.
Possible Origin of Absorption Lines in the Spectrum of QSO's. I, No.4, 334

BARNOTHY, M.
(See Barnothy, J., I, No.4, 334)

BARNOTHY, J.M. & M.F.
Concentration of QSO's around z=2 Redshift. I, No.2, 181

Effect of Gravitational Lenses on Very Long Baseline Radio Interferometry. I, No. 2, 181

BASART, J.P.
(See Sinclair, I, No.4, 362)

BECKLIN, E.
Infrared Observations of the Galactic Center at 5 and 10 μ. I, No.2, 182

(See Neugebauer, I, No.2, 201)

BECKMAN, J.E.
Regions of Enhanced Emission on the Sun, Observed at 1.2-mm Wavelength. I, No.4, 334

BEER, R.
Astronomical Spectroscopy in the Near Infrared Using a Connes-Type Fourier Spectrometer. I, No.2, 182

BEESON, D.E.
(See Weinberg, I, No.4, 368)

BELL, G.D.
Revised Absolute f Values for λ3247 of Cu I and λ3720 of Fe I. I, No.2, 182

BENDT, J.
(See C.G. Davis, Jr., I, No.3, 238)

BERENDZEN, R.
On the Career Development and Education of Astronomers in the United States. I, No.4, 334

BERGE, G.L.
A New Examination of the Nonthermal Microwave Spectrum of Jupiter. I, No.3, 233
BERTHEL, R.O.
(See Wares, I, No.4, 367)
BIERITZ, J.H.
(See Dickel, I, No.3, 239)
BILLINSLEY, F.C.
(See Goetz, I, No.3, 242)
BISHOP, E.V.
Thermal Histories of Jupiter Models. I, No.2, 182
BLAAUW, A.
A Program for the Study of the Motions and Distribution of Intermediate-Age Stars at the Leander McCormick Observatory. I, No.4, 335
BLESS, R.C.
The Elementary Astronomy Course for Non-Science Majors. I, No.4, 335

Interstellar Extinction in the Ultraviolet. I, No.4, 335
BLIZARD, J.B.
Advance Warning of Proton Emission from the Sun. I, No.4, 336
BOESGAARD, A.M.
Lithium in Ba II Stars and S Stars. I, No.2, 183
BOHLIN, J.D.
(See Simon, I, No.3, 261)
BOLDT, E.
Cosmic x-Radiation Associated with Suprathermal Protons. I, No.2, 183
BOND, H.E.
A Search for Metal-Deficient Stars. I, No.4, 336
BOOKMYER, B.B.
A Study of Observations of V566 Ophiuchi. I, No.3, 234
BOWYER, C.S.
(See Field, I, No.2, 188)
BOYCE, P.B.
Area Scanning of Mars During 1969. I, No.4, 336
BOYNTON, P.E.
(See Stokes, I, No.2, 206)
BOZYAN, F.A.
Jovian Decametric Occurrence Statistics. I, No.2, 183
BRANDT, J.C.
Preliminary Determination of Solar Wind Velocities from Ionic Comet Tail Orientations without the Assumption of Coplanarity. I, No.3, 234

A Calculation of the Angular Momentum of the Solar Wind. I, No.2, 183
(See Wolff, I, No.4, 369)
BRANLEY, F.M.
Planetarium Programs in the U.S. I, No.4, 336
BRAULT, J.W.
Observations of the 5000-Å Water Vapor Band. I, No.3, 234
BRAULT, J.W.
The Solar Wavelength Program -- Kitt Peak National Observatory. I, No.3, 235
BRECKINRIDGE, J.B.
(See Brault, I, No.3, 235)
BREGER, M.
Incidence of Short-Period Variability in the Lower Hertzsprung Gap. I, No.4, 337
BROOKS, C.C.
Initial Declination Measurements with the University of Texas Bandwidth-Synthesis Interferometer. I, No.2, 184
BROWN, D.W.
(See Courten, I, No.4, 338)
BROWNE, J.C.
(See Ulrich, I, No.2, 208)
BRUENN, S.W.
Anisotropy of the Velocity Distribution of Interstellar Clouds. I, No.4, 337
BRUNDAGE, R.K.
(See Slettebak, I, No.4, 362)
BUHL, D.
The Source of Anomalous Cooling of the Lunar Mare during an Eclipse. I, No.2, 184
The Discovery of Interstellar Formaldehyde. I, No.3, 235
(See Snyder, I, No.4, 363)
(See Snyder, I, No.2, 204)
(See Sinclair, I, No.4, 362)
BURBIDGE, G.R.
(See Wolfe, A.M., I, No.2, 210)
BUSCOMBE, W.
(See Corso, I, No.2, 184)
BYARD, P.L.
(See Kissell, I, No.3, 248)
CAHN, J.H.
A Comparison of Calculated and Observed Extinctions for Planetary Nebulae. I, No.2, 184
CAMERON, A.G.W.
(See Seidl, I, No.2, 203)
(See Tsuruta, I, No.3, 263)
CAMERON, W.S.
An Analysis of the Distribution of Boulders in the Vicinity of Small Lunar Craters. I, No.3, 235
CARBON, D.F.
A Theoretical Solar Model with Metal-Line Blanketing. I, No.4, 337
CARMO, O
(See Kuiper, I, No. 4, 351)
CASSINELLI, J.P.
(See Brandt, I, No.2, 183)
(See Wegner, I, No.2, 209)
CATHY, L.R.
(See Toor, I, No.4, 365)
CATURA, R.C.
(See Acton, I, No.3, 231)
CHA, M.Y.
Brightness Fluctuations from Waves in the Sun's Atmosphere. I, No.3, 235
CHAFFEE, F.H., Jr.
Microturbulence in Main-Sequence Stars. I, No.3, 236

CHAMBLISS, C.R.
H-Alpha and H-Beta Photometry of Selected Bright Stars. I, No.3, 236
CHEUNG, A.C.
(See Knowles, I, No.3, 249)

Observations of Microwave Emission from the 1.35-cm Line of Interstellar Water Vapor. I, No.3, 236
CHURCHWELL, E.
Broadband Spectroscopy of the Orion Nebula. I, No.4, 337
CLARK, T.A.
(See Weber, I, No.3, 265)
CLAYTON, D.D.
(See Peters, I, No.4, 359)
CODE, A.D.
Ultraviolet Spectrophotometric Observations with the Wisconsin Experiment Package on OAO-2. I, No.3, 237

(See Bless, I, No.4, 335)
COHEN, C.J.
(See Oesterwinter, I, No.3, 255)
COHEN, J.G.
Analysis of the Peculiar A Star α^2CVn. I, No.3, 237
COLLINS, G.W.
Intrinsic Polarization in Nongray Atmospheres. I, No.4, 338
CONNES, J.
(See Montgomery, I, No.2, 201)
CONNES, P.
(See Montgomery, I, No.2, 201)
CONTI, P.S.
The Double-Line A Star η Vir. I, No.3, 237
COOK, A.F.
Meteoroidal Bombardment of Saturn's Rings. I, No.4, 338
COOPER, M.L.
A Comparison of Linear and Nonlinear Laws of Limb Darkening for TW Draconis and Other Eclipsing Binary Systems. I, No.3, 238
CORSO, G.
Optical Tracers of Spiral Structure. I, No.2, 184
COSTERO, R.
(See Peimbert, I, No.3, 256)
COURTEN, H.C.
Search for Solar Proximate Comets. I, No.4, 338
COUTTS, C.
A Study of the Variable Gap in M5. I, No.3, 238
COWLEY, C.R.
Selective Excitation in Two Solar Flares. I, No.4, 339
COX, J.P.
(See D.S. King, I, No.3, 248
COYLE, G.J.
(See Cameron, W.S., I, No.3, 235)
COYNE, G.V.
Wavelength Dependence of Polarization: Interstellar and Intrinsic. I, No.2, 185
CRAWFORD, D.L.
Intermediate-Band Photometry for the α Per Open Cluster. I, No.3, 238
CRUTCHER, R.M.
(See Kaufmann, W.J., I, No.3, 246)
CUDABACK, D.D.
(See Cheung, I, No.3, 236)
CUFFEY, J.
Seeing Tests at Magdalena Peak. I, No.2, 185
DAVIDSON, A.W.
(See Low, I, No.2, 200)
DAVIS, C.G., Jr.
Radiative Transfer Effects in Cepheid Atmospheres. I, No.3, 238
DAVIS, R., Jr.
Review Paper: Solar Neutrinos. I, No.4, 339
DAVIS, R.J.
Far-Ultraviolet Photometry of Stars Obtained with the Celescope Experiment in OAO-A2. I, No.3, 238
De CESARE, M.
(See de Vaucouleurs, I, No.2, 186)
DECKER, J.A., Jr.
Multiplex Grating Spectrometer. I, No.4, 339
DEGIOANNI, J.J.
(See Dickel, I, No.3, 240)
DELSEMME, A.H.
A New Model of the Cometary Nucleus and Coma. I, No.4, 339
DEMARCUS, W.C.
(See Bishop, I, No.2, 182)
DEMERS, S.
The Unique Variable V725 Sagittarii. I, No.2, 185
DEPRIT, A.
Internal Resonances at an Equilibrium. I, No.3, 239
DEUTSCHMAN, W.A.
Ultraviolet Intensities of Stars Observed in Vela by the Celescope Experiment on the Orbiting Astronomical Observatory. I, No.3, 239
deVAUCOULEURS, A.
(See deVaucouleurs, G., I, No.2, 186)
deVAUCOULEURS, G.
Rotation, Masses, and Mean Densities of Nine Galaxies. I, No.2, 186
DICKEL, H.R.
Photoelectric Observations of the H-Alpha and [N II] Emission in the Cygnus X Complex. I, No.3, 239
DICKEL, J.R.
The Microwave Spectrum of Jupiter. I, No.3. 240
DIETZ, R.D.
Ne I in the Sun and in RS Ophiuchi. I, No.3, 240
DOHERTY, L.R.
The Ultraviolet Flux of Capella. I, No.4, 339
DOUGLAS, J.N.
(See Brooks, I, No.2, 184)

DOWNS, G.S.
Pulsar Observations at 12.5- and 3.5-cm Wavelength. I, No.2, 186
DOYLE, R.J.
(See Kumar, I, No.4, 351)
DREILING, L.A.
(See Evans, I, No.4, 341)
DUNCOMBE, R.L.
The Orbit of Neptune and the Mass of Pluto, I, No.2, 186
DUPREE, A.K.
Absorption and Emission of Recombination Radiation by H I Regions. I, No.4, 340
EDDY, J.A.
Solar Brightness Temperature and Spectra: 80-400 Microns Wavelength. I, No.2, 187
EDISON, D.M.
The Drive System for the McDonald Observatory 107-inch Telescope. I, No.3, 240
EDMONDS, F.N., Jr.
(See Montgomery, I, No.2, 201)
EFRON, L.
(See Anderson, J.D., I, No.3, 231)
EGAN, W.G.
The Significance of Mie Scattering in the Martian Atmosphere. I, No.4, 340
ELSTE, G.
Excitation Temperatures of Fe I in the Sun and A Stars and Systematic Errors in the gf Scale. I, No.4, 340
EPSTEIN, I.
Four-Color Photometry of RR Lyrae Field Stars. I, No.2, 187
ESHLEMAN, V.R.
(See Fjeldbo, I, No.3, 241)
EVANS, J.C.
Magnetic and Turbulent Effects on Sunspot Curves of Growth. I, No.4, 341

A Preliminary Atmospheric Analysis of θ Ursae Majoris. I, No.4, 341
EVERHART, E.
Energy Changes During Close Encounters. I, No.4, 342
FAINBERG, J.
(See Malitson, I, No.3, 252)
FAY, T.
Precision Constants of the Cyanogen Red System with a Perturbation Analysis. I, No.4, 342
FELDMAN, P.D.
Rocket Observations of Bright Celestial Infrared Sources in Ursa Major. I, No.2, 187
FIALA, A.D.
Determination of the Mass of Jupiter from a Study of the Motion of 57 Mnemosyne. I, No.4, 342
FIELD, G.B.
On the Possible Existence of a Dense Intergalactic Medium. I, No.2, 188

A Theoretical Model for the Interstellar Medium. I, No.3, 240
FISCHEL, D.
Far-UV Model Fittings for Sirius. I, No.4, 342
FISHER, P.C.
X-Ray Survey Experiment. I, No.4, 343
(See Acton, I, No.3, 231)
FISHER, R.R.
Narrow-Band H-Alpha Observations of the Orion Nebula. I, No.3, 241
FITCH, W.S.
Tidal Modulation of the Pulsations of Beta Cephei. I, No.2, 188
FJELDBO, G.
The Mariner V Dual-Frequency Occultation Measurements of the Neutral Atmosphere of Venus. I, No.3, 241
FLEISCHER, R.
The Astronomical Community and Manpower Needs. I, No.4, 343
FORBES, F.F.
(See Hunt, I, No.3, 244)
FORD, W.K.
Spectra of Emission Regions in M31. I, No.2, 188
FOREMAN, K.M.
(See Egan, I, No.4, 340)
FORSLUND, D.W.
Plasma Instabilities Associated with Heat Conduction in the Solar Wind and their Consequences. I, No.4, 343
FRANKLIN, F.A.
(See Cook, I, No.4, 338)
FRANZ, O.G.
Observations of Variable Stars in Visual Binaries. I. ADS 9701. I, No.4, 343

A Search for an Anomalous Brightening of Io After Eclipse. I, No.4, 344
FREDERICK, C.L.
(See Hoffmann, W.F., I, No.2, 193)
FREDRICK, L.W.
An Astrometric Study of L726-8. I, No.3, 241
FRIEDMAN, H.
Absence of Pulsar Characteristics in Several X-ray Sources. I, No.2, 188
FRITZ, G.
(See Friedman, H., I, No.2, 188)
FYMAT, A.L.
(See Abhyankar, I, No.2, 179)
GALE, W.A.
(See Sinclair, I, No.4, 362)
GAPOSHKIN, C.
Orbital Resonance as a Possible Source of Nova Outbursts. I, No.2, 189
GAPOSHKIN, S.
The Absolute Dimensions of the Rare Supergiant Eclipsing System BL Telescopii. I, No.2, 189

The Absolute Period-Luminosity for Cepheids. I, No.4, 344

Two Strange Clusters in the Large Magellanic Cloud. I, No.3, 241

GARRISON, L.M., Jr.
(See Hall, D.S., I, No.4, 346)
GARY, B.
Jupiter Circular Polarization Measurements. I, No.4, 344
GAUSS, F.S.
Automatic Data Acquisition and Control System for a Transit Circle. I, No.2, 189
GEBEL, W.L.
On the Formation of C_2 Swan Bands in Comet Spectra. I, No.2, 190
GENBERG, R.W.
(See Courten, I, No.4, 338)
GILLESPIE, C.M.
(See Low, I, No.2, 199)
GILVARRY, J.J.
The Nature of the Lunar Mascons. I, No.3, 241
GINGERICH, O.
Astronomy in Harvard Project Physics. I, No.4, 344
GLENN, S.W.
(See Kurfess, I, No.2, 197)
GOETZ, A.F.H.
Color Differentiation by Computer Processing. I, No.3, 242
GOLDBERG, L.
(See Dupree, I, No.4, 340)
GOLDREICH, P.
Pulsar Electrodynamics. I, No.3, 242
GOLDSMITH, D.W.
(See Field, I, No.3, 240)
GOLSON, J.C.
(See Pelling, I, No.3, 256)
GOODMAN, GARY C.
(See Dickel, I, No.3, 240)
GOODY, R.
Review Paper: The Atmospheres of Mars and Venus. I, No.4, 345
GORDON, M.A.
94-α Recombination Lines in Orion B. I, No.2, 190
(See Meeks, I, No. 2, 200)
GRADER, R.J.
(See Seward, I, No.4, 361)
GRAHAM, J.A.
Photometric Classification of High-Latitude Blue Stars. I, No.4, 345
GRAY, L.D.
High Dispersion Spectroscopic Observations of Venus IV: The Weak Carbon Dioxide Band at 7883 A. I, No.2, 190
GREEN, J.
Periodicity of Lunar Spectral Anomalies. I, No.3, 243
GREENBERG, J.M.
(See Hanner, I, No.4, 347)
GREENE, T.F.
Interpretation of the CO Bands in Arcturus. I, No.4, 345

A Method to Determine Carbon, Nitrogen, and Oxygen Abundances in Carbon Stars. I, No.2, 191
GROSS, S.H.
(See Smith, L.L., I, No.4, 363)
GULKIS, S.
Lunar Occulation Observations of Jupiter at 234 and 405 MHz. I, No.3, 243
(See Gary, I, No.4, 344)
GUNN, J.E.
Visual Background Radiation in the Coma Cluster of Galaxies. I, No.2, 191
(See Ostriker, I, No.4, 357)
GUTSCHE, G.D.
Photoelectric Measurements of the λ6495 Line of FeI in G and K Stars. I, No.4, 345
HABING, H.J.
(See Field, I, No.3, 240)
HALL, David L.
(See Matsushima, I, No.2, 200)
HALL, Donald E.
Stochastic Acceleration in the Presence of Streaming. I, No.3, 243
HALL, Douglas S.
The Huang Disk Model Applied to Other Eclipsing Binaries. I, No.4, 345

BM Orionis, the Eclipsing Binary in the Trapezium, I, No.4, 346

The Nearby, Loose Cluster Collinder 399. I, No.4, 346
HAMID, S.E.
Second-Order Planetary Theory: Outline of the Method. I, No.4, 346
HANNER, M.S.
On the Color and Polarization of Reflection Nebulae. I, No.4, 347
HANSEN, R.T.
Differential Rotation of the Solar Electron Corona. I, No.3, 243
HANSEN, S.F.
(See Hansen, I, No.3, 243)
HARRINGTON, R.S.
The Stability of a Two-Planet Model for Barnard's Star. I, No.4, 347
HARRISON, E.R.
Generation of Seed Magnetic Fields in the Radiation Era. I, No.4, 347
HARWIT, M.
(See Decker, I, No.4, 339)
(See Joss, I, No.4, 349)
HASHEMI, J.F.
Energy Source for the Solar Corona. I, No.4, 347
HEATH, D.F.
Photometric Observations of Intense Far-Ultraviolet Extraterrestrial Sources from 1150-1250 Å, 1250-1450 Å, and 1450-2000 Å. I, No.2, 191
HECKATHORN, H.M., III
(See Wray, I, No.4, 370)
HEGYI, D.
Search for Rapid Fluctuations in Light from the Crab Nebula Pulsar. I, No.4, 347
HEIDMANN, J.
The Luminosity-Diameter Relations for Galaxies. I, No.2, 191
HEIDMANN, N.
Total Masses and Angular Momenta of Galaxies. I, No.2, 192

HEISER, A.
H-beta Observations of Two Subclusterings in the Orion OB1 Association. I, No.4, 348
HENIZE, K.G.
(See Kondo, I, No.3, 250)
HENRARD, J.
(See Deprit, I, No.3, 239)
HENRY, R.C.
(See Friedman, I, No.2, 188)
HEWITT, A.V.
(See Ables, I, No.3, 231
HILGEMAN, T.
(See Neugebauer, I, No.2, 201)
HILL, R.W.
(See Seward, F.D., I, No.4, 361)
HJELLMING, R.M.
The Cosmic-Ray Spectrum Below 30 MeV/nucleon. I, No.4, 348

The Effects of Inhomogeneities and Non-LTE on Radio Recombination Lines. I, No.2, 192
HOAG, A.A.
An Image Dissector Scanner. I, No.2, 192
HOBBS, L.M.
Interferometric Studies of the Interstellar Sodium D Lines in 77 Stars. I, No.2, 192
HOBBS, R.W.
Polarized Brightness Distribution of Taurus A and Orion A at 9.55-mm Wavelength. I, No.3, 244
HODDER, R.V.
(See Innanen, I, No.3, 245)
HODGSON, G.W.
(See Johnson, F.M., I, No.3, 246)
HOFFMANN, W.F.
Observation of the Galactic Center at 100μ. I, No.2, 193
HOGBOM, J.A.
Observations of the Angular Structure of Extragalactic Radio Sources at 2995 MHz. I, No.4, 348
HOLDRIDGE, D.B.
A Preliminary Special Perturbation Theory for the Moon. I, No.4, 348
HOLLENBACH, D.
Molecular Hydrogen Formation on Grains in H I Regions. I, No.3, 244
HOLLINGER, J.P.
(See Friedman, I, No.2, 188)
HOUCK, T.E.
(See Bless, I, No.4, 335)
HOUSE, F.
(See Innanen, I, No.3, 245)
HUBBARD, W.B.
New Tables of Electron Conduction Opacities. I, No.2, 193
HUGHES, V.A.
Radio Observations of Pre-protostars. I, No.3, 244
HUGHS, E.E.
The Distribution of Infrared Stars. I, No.2, 193
HUMPHREYS, R.M.
M Supergiants in the Perseus Arm. I, No.4, 349
HUNT, M.S.
AFCRL Lunar Laser Ground Station Status. I, No.3, 244
HUTCHISON, P.B.
(See Weinberg, I, No.4, 368)
IANNA, P.A.
(See Blaauw, I, No.4, 335)
INNANEN, K.A.
Results of Numerical Experiments with Orbits of Groups of Population II Stars in a Galactic Mass Model. I, No.3, 245
IRVINE, W.M.
(See Uesugi, I, No.4, 366)
ISHIDA, K.
A UBV Study of IC 1805. I, No.2, 194
JACOBSON, A.S.
The Observation of Several Cosmic x-Ray Sources in the 20-250 keV Range with a Ge (Li) Detector. I, No.3, 245
JAMES, J.C.
Radar Evidence of Plasma that Refracts or Reflects 38-MHz Radio Energy at Three or More Solar Radii from the Sun, and the Solar-Wind Implications. I, No.3, 245
JANES, K.A.
(See Ables, I, No.2, 179)
JEFFERIES, J.T.
Models for Coronal Condensations. I, No.3, 246
JEFFERYS, W.H.
Numerical Experiments in Celestial Mechanics. I, No.2, 194
JENKINS, E.B.
Rocket Observations of Interstellar Lyman-α Absorption in Scorpius Stars. I, No.2, 194
JOHNSON, F.M.
Preliminary Low-Temperature Absorption and Scattering Data of Organic Powders Simulating Interstellar Dust. I, No.3, 246
JOHNSON, H.M.
(See Pelling, I, No.3, 256)
JOHNSON, H.R.
New Vibrational and Equilibrium Constants for the C_2 Phillips System. I, No.4, 349
JOHNSTON, K.J.
(See Hobbs, I, No.3, 244)
JOSS, P.C.
Orientation-Dependence of the Evolution of Long-Period Comet Orbits. I, No.4, 349
JULIAN, W.H.
(See Goldreich, I, No.3, 242)
JURKEVICH, I.
(See Leung, I, No.3, 251)
KALER, J.B.
(See Cahn, I, No.2, 184)
KALMAN, G.
Properties of an Electron Gas at White-Dwarf Densities. I, No.2, 195
KATTAWAR, G.W.
(See Adams, C.N., I, No.2, 180)
KAUFMANN, W.J.
The Scattering of Photons by a Highly Relativistic Star. I, No.3, 246
KELLER, C.F.
Hydrodynamic Atmospheres of a Cepheid Model. I, No.3, 247

KELLER, C.F.
A Comparison of Static and Hydrodynamic Cepheid Models. I, No.4, 350
KELSALL, T.
Color-Color Areas as a Population Discriminant for Cepheids. I, No.2, 195
KIANG, T.
Clustering of Clusters of Galaxies. I, No.3, 247
KING, D.S.
Nonlinear Cepheid Pulsation Calculations. I, No.3, 248
KIRK, J.G.
Some Solar Line Profiles Obtained from Small Regions of the Disk with a High-Speed Spectral Scanner. I, No.3, 248
KIRKPATRICK, R.C.
Model Planetary Nebulae, I, No.2, 195
KISSELL, K.E.
Infrared Observations of the Solar Corona. I, No.3, 248
KLEIN, M.J.
The Microwave Spectrum of Mercury. I, No.4, 350

(See Gary, I, No.4, 344)
KLEINMANN, D.E.
Recurrent Injection in the Crab Nebula. I, No.2, 196

Infrared Observations of M82 and M31 between 5 and 25 Microns. I, No.3, 248
KLEPCZYNSKI, W.J.
(See Duncombe, I, No.2, 186)
KLINGLESMITH, D.A.
(See Fischel, I, No.4, 342)
KLOCK, B.L.
Washington Meridian Observations of the Moon 1925-1968. I, No.3, 249
KNAPPENBERGER, P.H.
Chilled-Emulsion Photography at Fernbank Observatory. I, No.3, 249
KNOWLES, S.H.
Observations of H_2O Line Emission at 1.35-cm Wavelength in the Interstellar Medium. I, No.3, 249

21-Cm Lunar Occultations of the Galactic Center. I, No.2, 196
KOCH, R.H.
A Detailed Rotational Velocity Study of the B2 Component in 68 Herculis. I, No.4, 350
KONDO, Y.
Ultraviolet Spectrum of Canopus Taken from Gemini XI. I, No.3, 250
KOTILA, C.L.
(See Kondo, I, No.3, 250)
KOVAR, N.S.
Light Scattering by Manned Spacecraft Atmospheres. II. Large Particles. I, No.3, 250
KOVAR, R.P.
(See Kovar, N.S., I, No.3, 250)
KRAFT, R.P.
Spectroscopic Observations of the Optical Object Identified with Cygnus X-2. I, No.2, 196
KRAUS, J.D.
Statistical Studies of Radio Sources in the Ohio List. I, No.4, 350
KRON, G.E.
(See Ables, I, No.3, 231)
(See Lewis, I, No.4, 352)
KRUSZEWSKI, A.K.
The Origin of the Intrinsic Polarization in Be Stars. I, No.2, 197
KUIPER, G.P.
Identification of the Venus Cloud Layers. I, No.4, 351
KUMAR, C.K.
Isotopic Abundance of Magnesium in the Sun. I, No.4, 351
KUMAR, S.S.
Model Atmospheres for Degenerate Stars. I, No.4, 351
(See Shelus, I, No.4, 361)
KUNDU, M.R.
Polarized Brightness Distributions of Supernova Remnants IC 443, W44, and the Cygnus Loop at 6- and 11-cm Wavelengths. I, No.2, 197
KUNKEL, W.E.
Activity of Solar-Neighborhood Flare Stars. I, No.2, 197
(See Toor, I, No.4, 365)
KURFESS, J.D.
Observation of Gamma Radiation from a Subflare. I, No.2, 197
LAMPE, M.
(See Hubbard, I, No.2, 193)
LANE, H.
(See Fleischer, I, No.4, 343)
LAROS, J.G.
(See Jacobson, I, No.3, 245)
LATHAM, D.W.
Merak Taken Siriusly, I, No.4, 352
LEIBY, C.C., Jr.
The Genesis of the Solar System. I, No.4, 352
LEIGHTON, R.B.
(See Hughs, E.E., I, No.2, 193)
LENA, P.J.
(See Eddy, I, No.2, 187)
LEUNG, K-C.
An Interpretation of Delta Scuti Stars. I. No.3, 251

On the Structure of VW Cephei. I, No.3, 251
LEWIS, M.R.
The Kron Electronic Camera. I, No.4, 352
LIESKE, J.H.
Icarus and Astronomical Constants. I, No.2, 198
(See Null, I, No.4, 356)

LILLER, W.
Ultraviolet Observations of the 18-cm OH Emission Sources in NGC 6334 and Orion. I, No.3, 251
LILLIE, C.F.
A Search for Diffuse Galactic Light at the Wavelengths λλ2800, 2500, and 2100 Å. I, No.2, 199
(See Bless, I, No.4, 335)
LILLIE, Charles F.
An Empirical Determination of the Interstellar Radiation Field. I, No.2, 198
LINDSLEY, J.N.
(See Goetz, I, No.3, 242)
LINSKY, J.L.
H_3^+, An Important Missing Continuous Opacity Source in the Sun. I, No.3, 251
LIPPINCOTT, S.L.
A New Unresolved Astrometric Binary: PGC 588. I, No.2, 199
LITTLE, S.J.
A Titanium Abundance for HD 168733 from Ti II Lines. I, No.2, 199
LITVAK, M. M.
(See Meeks, I, No. 2, 200)
LIWSHITZ, M.
(See Sinclair, I, No.4, 362)
LOOMIS, H.G.
(See Hansen, I, No.3, 243)
LOW, F.J.
Absolute Brightness Temperature of the Sun at 1 mm. I, No.2, 199
The Thermal Emission of Jupiter and Saturn. I, No.2, 200
(See Kleinmann, I, No.3, 248)
LU, P.K.
On the Photographic Photometry of Quasi-stellar Objects. I, No.4, 353
MAAS, R.
(See Ney, I, No.2, 202)
MACDONALD, G.
Supersynthesis Observations with the NRAO Interferometer. I, No.3, 252
(See Miley, I, No.4, 354)
MacQUEEN, R.M.
(See Eddy, I, No.2, 187)
MALITSON, H.H.
Satellite Observations of Solar Radio Bursts to Kilometric Wavelengths. I, No.3, 252
MANKIN, W.G.
Solar Far-Infrared Radiation. I, No.2, 200
MARCUS, A.H.
Two-Point Statistics of the Gravitation Arising from a Random Distribution of Stars. I, No.4, 353
MARENIN, I.R.
(See Johnson, H.R., I, No.4, 349)
(See Fay, I, No.4, 342)
MARGONI, R.
(See Coutts, I, No.3, 238)
MARLBOROUGH, J.M.
(See Cowley, I, No.4, 339)
MARSDEN, B.G.
On the Relationship Between Comets and Minor Planets. I, No.4, 353
MARTIN, P.G.
A Study of the Structure of Rapidly Rotating Close-Binary Systems. I, No.4, 354
MARTIN, T.Z.
(See Nolt, I, No.4, 356)
MATESE, J.J.
(See O'Connell, I, No.3, 255)
MATILSKY, T.A.
(See Jenkins, I, No.2, 194)
MATSUSHIMA, S.
Photometric Evidence Supporting the Revised Calibration of Vega by Hayes. I, No.2, 200
MATTESON, J.L.
(See Pelling, I, No.3, 256)
MAYER, C.H.
(See Knowles, I, No.3, 249)
McNUTT, D.P.
(See Feldman, I, No.2, 187)
MEAD, J.
(See Egan, I, No.4, 340)
MEEKINS, J.F.
(See Friedman, I, No.2, 188)
MEEKS, M.L.
The Search for Interstellar SH, A Progress Report, I, No.2, 200
MELBOURNE, W.G.
Gravitationally Consistent Planetary Ephemerides Based on Meridian Circle, Radar, and Mariner Observations. I, No.3, 253
MELROSE, D.B.
Interaction Between Cosmic-Ray Electrons and Cosmic-Ray Protons. I, No.4, 354
MENZEL, D.H.
(See Schatten, I, No.3, 261)
MEREDITH, B.
(See Gary, I, No.4, 344)
MEZGER, P.G.
(See Churchwell, I, No.4, 337)
MICHEL, F.C.
Pulsar Stellar Wind Torques: NP0532. I, No.4, 354
MILEY, G.K.
Observations of the Radio Structure Quasars. I, No.4, 354
MILLER, D.C.
(See Delsemme, I, No.4, 339)
MILLER, J.S.
Abundances in a Halo Planetary Nebula. I, No.3, 253
(See Kraft, I, No.2, 196)
MILLER, R.H.
Computer Simulation of Galactic Evolution. I, No.4, 355
MILLIS, R.L.
(See Franz, I, No.4, 343)
(See Franz, I, No.4, 344)
MITCHELL, W.E., Jr.
The Variation of the Central Intensities of Fraunhofer Lines during the Solar Cycle. I, No.3, 253
MONTGOMERY, E.F.
The Infrared Spectrum of Arcturus. I, No.2, 201

MOORE, R.L.
(See Sturrock, I, No.2, 206)
MORRIS, G.A.
(See Downs, I, No.2, 186)
MORRISON, D.
(See Klein, I, No.4, 350)
MORTON, D.C.
(See Jenkins, I, No.2, 194)
MOSELEY, G.F.
(See Brooks, I, No.2, 184)
MOTTINGER, N.A.
(See Mulholland, I, No. 3, 254)
MUHLEMAN, D.O.
(See Joss, I, No.4, 349)
MULHOLLAND, J.D.
Preliminary Results from Tests of Van Flandern's Corrections to the Lunar Elements. I, No.3, 254
(See Holdridge, I, No.4, 348)
MULLER, P.M.
(See Gilvarry, I, No.3, 241)
MUMFORD, G.S.
The Color-Magnitude Relation for Novalike Variables. I, No.4, 355
MURPHY, R.E.
Photometry of Mars near the Time of Opposition. I, No.4, 355
MURPHY, R.E.
A Spectroscopic Investigation of Visual Binaries with B-Type Primaries. I, No.3, 254
MUTSCHLECNER, J.P.
(See Keller, I, No.4, 350)
NACOZY, P.
A Method of General Perturbations for Cometary Orbits. I, No.3, 254
NAJITA, K.
White-Light Solar Flares. I, No.3, 254
NARIAI, K.
Envelope Models of Hydrogen-Deficient Stars. I, No.4, 355
NEFF, J.S.
Photoelectric Spectrophotometry of the Major Planets. I, No.4, 355
NEUGEBAUER, G.
Observations of Infrared Radiation near the 18-cm OH Emission Sources in W51, W75, and W3. I, No.2, 201
(See Hughs, I, No.2, 193)
(See Becklin, I, No.2, 182)
NEY, E.P.
Infrared Observations of Mercury and Uranus. I, No.2, 202
NOLT, I.G.
Submillimeter Telluric Absorption at Mauna Kea Observatory. I, No.4, 356
NOONAN, T.W.
Age of the Coma Cluster of Galaxies from Tidal-Limited Galaxian Sizes. I, No.3, 255
Galaxy Cluster Relaxation Times, I, No.2, 202
NORTON, R.H.
(See Beer, I, No.2, 182)
NOVICK, R.
(See Angel, I, No.2, 181)
(See Hegyi, I, No.4, 347)
NULL, G.W.
A Solution for the Mass and Dynamical Oblateness of Mars Using Mariner IV Doppler Data. I, No.4, 356
Astronomical Constants from Observations of the Inner Planets and Icarus. I, No.4, 356
(See Lieske, I, No. 2, 198)
O'CALLAGHAN, F.G.
(See Wray, I, No.3, 268)
O'CONNELL, R.F.
Effect of a Constant Magnetic Field on the Neutron Beta Decay Rate and its Implications for the Production of He in the "Big-Bang" Expansion of the Universe. I, No.3, 255
OESTERWINTER, C.
Accurate Ephemerides for Planets and Moon. I, No.3, 255
O'HANDLEY, D.A.
(See Melbourne, I, No.3, 253)
OLSSON, C.N.
Analysis of the Jovian Decametric Source Drift Based on the Beginning of Storms. I, No.2, 202
ORRALL, F.Q.
(See Cha, I, No.3, 235)
(See Jefferies, I, No.3, 246)
(See Dietz, I, No.3, 240)
(See Najita, I, No.3, 254)
OSAKI, Y.
A Mechanism of Outbursts of U Geminorum Stars. I, No.4, 357
OSTERBROCK, D.E.
Calculated [Fe X] and [Fe XIV] Line Strengths in a Seyfert-Galaxy Model. I, No.4, 357
OSTRIKER, J.P.
Magnetic Decay and the Maximum Period of Pulsars. I, No.4, 357
PACZYNSKI, B.
Stellar Evolution from Main Sequence to White Dwarf or Supernova. I, No.3, 256
PAGE, T.
NGC 3783, a Seyfert-Type Galaxy. I, No.3, 256
PALMER, P.
Observations of Excited State OH. I, No.4, 358
(See Yen, I, No.3, 269)
(See Buhl, I, No.3, 235)
(See Snyder, I, No.4, 363)
(See Zuckerman, I, No.2, 211)
PARSONS, S.B.
Physical Properties of Cepheids and Other Supergiants from Six-color Fitting. I, No.4, 358
PASACHOFF, J.M.
(See Schatten, I, No.3, 261)
PEERY, B.F.
Trends in Graduate Education in Astronomy. I, No.4, 358
PEIMBERT, M.
The Helium Abundance in Galactic H II Regions. I, No.3, 256
PELLING, R.M.
Simultaneous x-Ray and Optical Observations of Sco XR-1. I, No.3, 256

PENFIELD, H.
(See Yen, I, No.3, 269)
PERCY, J.R.
The Nature of the β Cephei Phenomenon. I, No.4, 358
PETERS, J.G.
Low Exposures in the s Process. I, No.4, 359
PETERSON, L.E.
(See Pelling, I, No.3, 256)
PETTAUER, T.V.
(See Franz, I, No.4, 344)
PHILIP, A.G.D.
High Galactic Latitude A Stars. III. I, No.2, 202
Intrinsic Colors of the Field Horizontal-Branch Stars. I, No.4, 359
A Photoelectric Sequence in the Area of NGC 2808. I, No.2, 203
Photometry of A Stars at the South Galactic Pole. I, No.3, 257
Radial Velocities of Field Horizontal-Branch Stars. I, No.4, 359
PHILIP, K.W.
High Time-Resolution Observations of Fine Structure Concurrent with Type III Bursts. I, No.4, 359
PIERCE, A.K.
(See Brault, I, No.3, 235)
PIERCE, S.
(See Kaufmann, I, No.3, 246)
POLLACK, J.B.
Decomposition and Energy Degradation of Very High-Energy Cosmic Rays by Doppler-Shifted Photons. I, No.4, 360
POPPER, D.M.
Twelve Eclipsing Binaries with Double-Lined Spectra. I, No.3, 257
POTTER, J.F.
The Delta Function Approximation in Radiative Transfer Theory. I, No.2, 203

On the Phase Curve of Venus. I, No.3, 258
PRASAD, B.
(See Kalman, I, No.2, 195)
PRENDERGAST, K.H.
(See Miller, R.H., I, No.4, 355)
PRISER, J.
(See Riddle, I, No.3, 259)
QUIRK, W.
(See Miller, R.H., I, No.4, 355)
RANK, D.M.
(See Knowles, I, No.3, 249)
(See Cheung, I, No.3, 236)
REBER, E.E.
(See Stacey, I, No.2, 205)
REED, R.
(See Melbourne, I, No.3, 253)
REFSDAL, S.
An Analytical Model for the Evolution of Shell-Burning Stars. I, No.3, 258
REGISTER, H.I.
(See Olsson, I, No.2, 202)
REICHLEY, P.E.
(See Downs, I, No. 2, 186)
RHODES, E.J.
(See Edison, I, No.3, 240)
RICHARDSON, E.H.
Progress Report on a High-Reflectance Coude Telescope. I, No.3, 259
RICKARD, J.J.
A Study of High- and Intermediate-Velocity H I Clouds with 12'.5 Spatial Resolution. I, No.3, 259
RIDDLE, R.K.
Trigonometric Parallax Determinations for Faint Stars. I, No.3, 259
ROBBINS, R.R.
Triplet Helium Emission in Diffuse Nebulae. I, No.2, 203
ROOD, R.T.
New Horizontal-Branch Models. I, No.4, 360
ROSE, W.K.
The Final Evolutionary Stages of a Low-Mass Star. I, No.3, 260
ROSENDHAL, J.D.
Microturbulence in A-Type Supergiants. I, No.3, 260
RUBIN, R.H.
Radio Observations of the Nebula NGC 6857-K 3-50. I, No.3, 260
RUBIN, V.C.
(See Ford, I, No.2, 188)
SADEH, D.
(See Friedman, I, No.2, 188)
SALPETER, E.E.
(See Hollenbach, I, No.3, 244)
SASLAW, W.C.
(See Kiang, I, No.3, 247)
SAVAGE, B.D.
(See Bless, I, No.4, 335)
SAVEDOFF, M.P.
(See Schuerman, I, No.4, 360)
SCHATTEN, K.H.
Coronal Polarization and Structure at the Total Solar Eclipse of 22 September 1968. I, No.3, 261
SCHORN, R.A.
(See Gray, I, No.2, 190)
SCHROEDER, L.W.
(See Evans, I, No.4, 341)
SCHUERMAN, D.W.
Mass Loss: A Hydrodynamic Envelope for Stellar Models. I, No.4, 360
SCONZO, P.
Planetary Surfaces of Equilibrium of Helmert's Type. I, No.3, 261
SCOTT, D.K.
(See Klock, I, No.3, 249)
SCOVILLE, N.
Infrared Emission by Mineral Grains from Red Supergiants. I, No.4, 361
SEIDELMANN, P.K.
(See Duncombe, I, No.2, 186)
SEIDL, F.G.P.
Numerical Hydrodynamic Studies of Stellar Collisions. I, No.2, 203
SEKANINA, Z.
Dynamical Aspects of Gradual Disactivation and Disintegration of Short-Period Comets. I, No.4, 361

SERLEMITSOS, P.
(See Boldt, I, No.2, 183)
SEWARD, F.D.
Interstellar Absorption of Crab Nebula X Rays. I, No.4, 361)
(See Toor, I, No.4, 365)
SHELUS, P.J.
Some Periodic Orbits in the Elliptic Restricted Problem of Three Bodies. I, No.4, 361
(See Fredrick, I, No.3, 241)
SHEN, B.S.P.
(See Pollack, I, No.4, 360)
SHIMABUKURO, F.I.
Summary of the First Three Months of Solar Monitoring at 3.3 mm. I, No.3, 261
Time-Lapse Films of the Solar Intensity at a Wavelength of 3.3 mm. I, No.2, 204
SHIPMAN, H.L.
Neutral Helium Lines in B Stars. I, No.2, 204
A Statistical Study of the Helium Abundance of Population I B Stars. I, No.4, 362
SHIVANANDAN, K.
(See Feldman, P.D., I, No.2, 187)
SILL, G.T.
(See Kuiper, I, No.4, 351)
SIMKIN, S.M.
The Stellar Velocity Field in M51. I, No.4, 362
SIMON, M.
Electron Density and Magnetic Field Distribution in Coronal Region Responsible for Type-IV Radio Burst of 14 September 1966. I, No.3, 261
SINCLAIR, A.C.E.
The Surface Temperature Distribution on Venus. I, No.4, 362
SINTON, W.M.
(See Nolt, I, No.4, 356)
SJOGREN, W.L.
(See Gilvarry, I, No.3, 241)
SLETTEBAK, A.
Early-Type Stars in a South Galactic Pole Region. I, No.4, 362
SMITH, A.G.
(see Ollson, I, No. 2, 202)
SMITH, C.E.
(See Innanen, I, No.3, 245)
SMITH, E.V.P.
Vertical Velocities in and surrounding a Sunspot Group. I, No.3, 262
SMITH, L.L.
The Evolution of Water Vapor in the Atmosphere of Venus. I, No.4, 363
SMITH, M.G.
A Pressure-Scanned Fabry-Perot Interferometer for the Kitt Peak National Observatory. I, No.3, 262
SMTH, R.
(See Rose, I, No.3, 260)
SMOLUCHOWSKI, R.
Motion of the Red Spot of Jupiter. I, No.4, 363
SNYDER, L.E.
Microwave Detection of $H_2C^{13}O^{16}$. I, No.4, 363
SNYDER, L.E.
On the Possibility of Detecting Interstellar Water Vapor Using a Radio Telescope. I, No.2, 204
(See Buhl, I, No.3, 235)
SOBIESKI, S.
(See Koch, I, No.4, 350)
SOLINGER, A.B.
More on the Existence of a Seyfert-Like Nucleus in M82. I, No.2, 204
SOLOMON, P.M.
Molecular Equilibrium in Dense Interstellar Clouds. I, No.2, 205
(See Scoville, I, No.4, 361)
SOUTHWICK, R.G.
(See Wolff, C.L., I, No.4, 369)
SPARKS, W.M.
A Theoretical Explanation of the Pre-maximum Halt of a Nova. I, No.2, 205
STACEY, J.M.
3.4- and 1.4-mm Observations of the Lunar Eclipse on 18 October 1967. I, No.2, 205
STAGNI, R.
(See Coutts, I, No.3, 238)
STECHER, T.P.
Interstellar Extinction in the Ultraviolet. I, No.4, 364
(See Fischel, I, No.4, 342)
STEIN, W.A.
(See Woolf, N.J., I, No.2, 210)
STEWART, J.C.
Proton Broadening of the Lyman-Alpha Line. I, No.2, 206
STOCKTON, A.
Blue Condensations Associated with Elliptical and SO Galaxies. I, No.3, 262
STOKES, R.A.
A Measurement of the Cosmic Microwave Background at λ=3.3 mm. I, No.2, 206
STONE, R.G.
(See Malitson, I, No.3, 252)
(See Weber, I, No.3, 265)
STRAND, K.A.
Photovisual Magnitude Differences of Double Stars. I, No.4, 364
(See Riddle, I, No.3, 259)
STROM, K.
(See Strom, S., I, No.4, 364)
STROM, S.
An Analysis of the Bright O Star in the Globular Cluster M3. I, No.4, 364
(See Shipman, I, No.2, 204)
(See Shipman, I, No.4, 362)
STRONG, J.
(See Mankin, I, No.2, 200)
STURCH, C.
Observed Hydrogen-to-Dust Ratios at High and Intermediate Latitudes. I, No.2, 206
STURROCK, P.A.
The Jet of M87 as a Galactic Flare. I, No.3, 262

A Mechanism for Pulsar Radio Emission. I, No.2, 206
SUGIMOTO, D.
Contraction and Electron Capture in Iron Stars. I, No.2, 206

SULLIVAN, W.T. III
(See Knowles, I, No.2, 196)
SZEBEHELY, V.
Dynamical Formation of Binaries. I, No.3, 263
TEBBE, P.L.
(See Chambliss, I, No.3, 236)
TECH, J.L.
A High-Dispersion Spectral Analysis of the Ba II Star HD 204075 (δ Capricorni). I, No.4, 364
TESKE, R.G.
Some Relations between Occurrence of Soft Solar x-Rays, Solar Flares, and Cm-λBursts. I, No.3, 263
THADDEUS, P.
(See Hegyi, I, No.4, 347)
THOMAS, R.J.
(See Teske, I, No.3, 263)
THORNTON, D.D.
(See Cheung, I, No.3, 236)
TIFFT, L.E.
(See Philip, I, No.4, 359)
(See Philip, I, No.2, 203)
TIFFT, W.G.
The Correlation of Optical and Radio Properties of Galaxy Nuclei. I, No.2, 207
TOLBERT, C.R.
21-cm Radiation from High Galactic Latitudes. I, No.4, 365
TOOR, A.
A Simultaneous Measurement of the Optical and X-Ray Emission from Sco X-1. I, No.4, 365
TOWNES, C.H.
(See Knowles, I, No.3, 249)
(See Cheung, I, No.3, 236)
TRASCO, J.D.
Models of Magnetic Stars, I, No.4, 365
TRIMBLE, V.L.
Ionization and Excitation in the Crab Nebula. I, No.2, 207
TSURUTA, S.
URCA Shells in White-Dwarf Stars. I, No.3, 263
TUBBS, E.F.
(See Bell, I, No.2, 182)
TUCKER, W.
A Rotating Neutron Star Model for Pulsars. I, No.2, 207
TULLY, R.B.
(See Williamson, I, No.3, 266)
TURNER, B.E.
Observations of Galactic OH. I, No.3, 263
(See Rubin, I, No.3, 260)
UESUGI, A.
A Rapid Method for Computation of Absorption Spectra in a Planetary Atmosphere. I, No.4, 366
ULRICH, B.T.
Cool Stars. I, No.2, 208
UPTON, E.K.L.
Interstellar Extinction and Intrinsic Color Indices of Stars in the Ultraviolet, Based on Observations Prior to December 1968. I, No.3, 264
VAN ALBADA, T.S.
The RR Lyrae Stars in M3 and ω Cen. I, No.4, 366
van ALTENA, W.F.
The Membership and Distance Modulus of the Hyades Cluster. I, No.2, 208
VAN CITTERS, W.
(See Fay, I, No.4, 342)
van de KAMP, P.
Parallax and Mass Ratio of the Visual Binary Eta Cassiopeia. I, No.2, 208
van den BERGH, S.
Metallicity of the Globular Clusters in M31. I, No.2, 208
Observations of the Nucleus of M82. I, No.3, 264
VANDEN BOUT, P.
(See Angel, I, No.2, 181)
VANEK, P.H.
The Role of Astronomers in Elementary and Secondary Education. I, No.4, 366
VAN FLANDERN, T.C.
A Discussion of 1950-1968 Occultations of Stars by the Moon. I, No.4, 367
VANLANDINGHAM, F.G.
(See Hall, D.S., I, No.4, 346)
VANYSEK, V.
Dissociation Processes in Comets. I, No.4, 367
VASILEVSKIS, S.
Increase of Precision in Trigonometric Parallaxes. I, No.2, 209
VEGOS, C.J.
(See Mulholland, I, No. 3, 254)
WACKERLING, L.R.
Early-Type Stars Whose Spectra have shown Emission Lines. I, No.4, 367
WAGONER, R.V.
(See Bardeen, I, No.4, 333)
WALKER, E.H.
Exchange Capture as a Mechanism for the Origin of Planetary Satellites. I, No.3, 264
WALLERSTEIN, G.
Optical Observations of the Infrared Source VY Canis Majoris. I, No.3, 265
(See Wegner, I, No.2, 209)
WAMPLER, E.J.
Changes in the Spectrum of 3C273. I, No.3, 265
WARES, G.W.
Extension of Shock-Tube Measurements of Absolute Cr I gf Values to Higher Excitation Potentials. I, No.4, 367
WARNER, B.
(See Little, I, No.2, 199)
WARNER, M.R.
On the Use of Gravity-Field Models to Postulate Hidden Maria on the Far Side of the Moon. I, No.3, 265
WATSON, W.D.
The Effect of Autoionization Lines on the Opacity of Stellar Interiors. I, No.2, 209
The Effect of Collective Interactions on the Electron Scattering Opacity of Stellar Interiors. I, No.4, 368

WEBER, R.R.
Spectral and Spatial Distribution of Cosmic Noise Observed by RAE-I. I, No.3, 265
WEBSTER, W.J., Jr.
Interferometry of Galactic H II Regions. I, No.4, 368
WEGNER, G.
Shockwave Models for the Outburst of the Repeating Nova, RS Ophiuchi. I, No.2, 209
WEINBERG, J.L.
On the Diffuse Galactic Light. I, No.4, 368
Photometry of Lunar Libration Regions. I, No.4, 368
WEISSKOPF, W.
(See Angel, I, No.4, 333)
WELCH, W.J.
(See Cheung, A.C., I, No. 3, 236)
WELLS, D.C.
Computer Assisted Observational Astronomy at McDonald Observatory: A Progress Report. I, No.2, 210
WENDKER, H.
(See Dickel, I, No.3, 239)
WENTZEL, D.G.
(See Melrose, I, No.4, 354)
WESSELINK, A.J.
Surface Brightness in the V System and Angular Diameters of Stars. I, No.4, 368
WEST, M.L.
Two-Population Models of Disc Galaxies. I, No.4, 369
WESTERLUND, B.E.
(See Wray, I, No.3, 268)
WHITE, M.L.
Origin of the Solar System. I, No.2, 210
Origin of the Solar System.II. I, No.3, 266
WHITFORD, A.E.
Absolute Energy Curves of Elliptical Galaxies. I, No.4, 369
WEIGERT, A.
(See Refsdal, I, No.3, 258)
WILKINSON, D.T.
(See Stokes, I, No.2, 206)
WILLIAMS, R.E.
[O I] λ6300 Emission in Planetary Nebulae. I, No.3, 266
WILLIAMSON, R.A.
Internal Radial Velocities of Selected H II Regions. I, No.3, 266
(See Fisher, R.R., I, No.3, 241)
WINN, F.B.
(See Mulholland, I, No. 3, 254)
WITT, A.N.
(See Lillie, C.F., I, No.2, 199)
WOLFE, A.M.
Discrete Source Models to Explain the Microwave Background Radiation. I, No.2, 210
WOLFF, C.
A Solar-Wind Model with Two Temperatures, Viscosity, Rotation, and Magnetic Field. I, No.4, 369
(See Brandt, I, No.2, 183)
WOLFF, R.S.
Search for Polarization in the X-Ray Emission of the Crab Nebula. I, No.4, 370
(See Angel, I, No.2, 181)
WOLFF, S.C.
The Magnetic and Spectrum Variations of HD 188041. I, No.3, 266
WOLNIK, S.J.
(See Wares, I, No.4, 367)
WOLSTENCROFT, R.D.
(See Bandermann, I, No.3, 233)
WOOD, D.B.
A Frontal Attack on Eclipsing Binaries. I, No.3, 267
WOOD, F.B.
Close-Binary Systems in the Contracting Phases. I, No.3, 267
WOOD, H.J.
Balmer-Line Observations of α^2CVn. I, No.3, 267
WOOLF, N.J.
Observations of Circumstellar Infrared Emission. I, No.2, 210
WORTH, M.D.
(See van de Kamp, I, No.2, 208)
WRAY, J.D.
An Atlas of the Southern Milky Way. I, No.3, 268
Spectroscopic Evidence for Rotation of the Ionized Gas Outside of the Stellar Region of M82. I, No.4, 370
An Ultraviolet Image Converter and Folded All-Reflecting Schmidt Telescope for Ultraviolet Astronomy. I, No.3, 268
WRIGHT, D.U.
(See Heath, I, No.2, 191)
WYLLER, A.A.
An Integral Fabry-Perot Spectrometer for Laboratory and Astrophysical Observations. I, No.2, 211
YEN, J.L.
Detection of the $^2\pi_{3/2}$, $J=\frac{5}{2}$ State of OH at 5-cm Wavelength. I, No.3, 269
YUN, H.S.
A Magnetostatic Model of a Sunspot with "Twisted" Fields. I, No.4, 370
ZAROMB, S.
A Relativistic Collision Model of the Origin of the Solar System. I, No.4, 371
ZELLNER, B.H.
Polarization in Reflection Nebulae. I, No.2, 211
ZIRKER, J.B.
(See Jefferies, I, No.3, 246)
ZUCKERMAN, B.
Recombination Line Observations at 11-cm Wavelength. I, No.2, 211
(See Yen, I, No.3, 269)
(See Buhl, I, No.3, 235)
(See Snyder, I, No.4, 363)
(See Palmer, I, No.4, 358)
(See Liller, I, No.3, 251)

Index of Authors of Papers Presented at a Special Session on Calibration of Spectrograms Held 31 January 1968 at Kitt Peak National Observatory, Tucson, Arizona

Introductory Remarks: Helmut A. Abt, I, No.1, 141

CHAFFEE, F.H.
Some Remarks on Spectrophotometry. I, No.1, 155

CONTI, P.S.
Spectrum Calibration at the Lick Observatory. I, No.1, 159

EDMONDS, F.N., Jr.
The McDonald Coude Sensitometer. I, No.1, 150

LATHAM, D.W.
Calibration of Kodak IIa Emulsions. I, No.1, 147

RICHARDSON, E.H.
The Victoria Coude Spectrograph. I, No.1, 144

ROSENDHAL, J.D.
(See Chaffee, I, No.1, 155)

SLAUGHTER, C.D.
Calibration by Photoelectric Spectrophotometry. I, No.1, 161

WILSON, O.C.
Calibration Apparatus at Mt. Wilson and Mt. Palomar. I, No.1, 154

WRIGHT, K.O.
Spectrophotometry at Victoria. I, No.1, 142

Summary: Helmut A. Abt, I, No.1; 164

Index of Authors of Papers Presented at the Pre-Inaugural Meeting of the Planetary Division of the American Astronomical Society, Held 10 December in Austin, Texas

ANDERSON, R.C.
(See Broadfoot, I, No.2, 214)
AUMANN, H.H.
Observations of Jupiter and Saturn with an Airborne Infrared Telescope System Open from 1.5 to 120μ. I, No.2, 213
BARKER, E.S.
High-Dispersion Spectroscopic Observations of Mars from 8700 A to 1.22 microns. I, No.2, 213
BARROW, C.H.
(See Capone, I, No.2, 214)
BERGSTRAHL, J.
(See de Vaucouleurs, I, No.2, 215)
BINDER, A.B.
Topography and Surface Features of Mars. I, No.2, 213
BOWYER, C.S.
Helium as a Major Constituent of the Jovian Atmosphere. I, No.2, 214
BROADFOOT, A.L.
Quartz Ultraviolet Spectra of Venus and Jupiter: A Preliminary Report. I, No.2, 214
CAMPBELL, M.J.
(See O'Leary, I, No.2, 217)
CAPONE, L.A.
The Upper Atmosphere of Jupiter. I, No.2, 214
CHAPMAN, C.R.
The Characteristics and Motions of Jupiter's Spots during a One-Year Period. I, No.2, 214
COYNE, G.V.
Polarization during Lunar Eclipses. I, No.2, 215
de VAUCOULEURS, G.
80 Years of Meridian Transits on Mars: 1877-1958. I, No.2, 215
DICKEL, J.R.
The Phase Variation and Microwave Spectrum of Venus. I, No.2, 215
FOX, K.
(See Margolis, I, No.2, 217)
GILLESPIE, C.M.
(See Aumann, I, No.2, 213)
GOODMAN, G.
New Model Atmospheres for Jupiter. I, No.2, 215
GRAY, L.
(See Barker, I, No.2, 213)
GREEN, T.C.
Io-Related Polarization Characteristics of the Jovian Decameter Emission. I, No.2, 216
HARWOOD, J.V.
(See Sinton, I, No.2, 218)
KATZ, R.
(See Poveda, I, No.2, 218)
KIEFFER, H.
Comparison Spectra for Martian Frosts. I, No.2, 216
LAMPTON, M.
(See Bowyer, I, No.2, 214)
LOW, F.J.
Lunar Infrared Flux Measurements at 22 Microns. I, No.2, 216
(See Aumann, I, No.2, 213)
MACDONALD, N.J.
(See Chapman, I, No.2, 214)
MARGOLIS, J.S.
Temperature of CH_4 on Jupiter. I, No.2, 217
McCORD, T.B.
The Spectral Reflectivity of Dark and Light Areas on the Surface of Mars. I, No.2, 216
MEDD, W.J.
(See Dickel, I, No.2, 215)
MENDELL, W.W.
(See Low, I, No.2, 216)
MENZEL, D.H.
The Escape of Planetary Atmospheres. I, No.2, 217
MOORE, R.
(See Barker, I, No.2, 213)
MORRISON, D.
Venus: Absence of a Phase Effect at 2-cm Wavelength. I, No.2, 217
O'LEARY, B.T.
Lunar and Planetary Mass Concentrations. I, No.2, 217
PARESCO, F.
(See Bowyer, I, No.2, 214)
PELLICORI, S.F.
(See Coyne, I, No.2, 215)
POTTER, J.F.
Effect of Cloud Scattering on Line Formation in the Atmosphere of Venus. I, No.2, 218
POVEDA, A.
Cosmic-Ray Damage to Lunar Soil. I, No.2, 218
SAGAN, C.
(See O'Leary, I, No.2, 217)
SCHORN, R.A.
(See Barker, I, No.2, 213)
SHERRILL, W.M.
(See Green, I, No.2, 216)
SINTON, W.M.
A Spectroaltimeter for Determining Elevation Differences on Mars. I, No.2, 218
WALLACE, L.
(See Broadfoot, I, No.2, 214)
WARNOCK, W.W.
(See Dickel, I, No.2, 215)
YOUNG, A.
Photometric Interpretation of Mariner IV Pictures. I, No.2, 218

Index of Authors of Papers Presented at Special Meeting on Solar Astronomy of the American Astronomical Society, Held 18-21 February 1969 at Mount Wilson and Palomar Observatories, Pasadena, California

ADLER, S.M.
On the Correlation between Sunspot Structure and Solar Flares. I, No.3, 270
AIKENS, R.S.
Progress Report on a 40-Channel Magnetograph. I, No.3, 270
ALFVEN, H.
Small-Scale Structures as Produced by Electric Currents. I, No.3, 270
ALTROCK, R.C.
Source Functions of Infrared Fraunhofer Lines from Equivalent Widths. I, No.3, 270
ALTSCHULER, M.
(See Newkirk, G., I, No.3, 288)
ANDERSON, K.A.
Electrons and Protons in Long-Lived Streams of Energetic Solar Particles. I, No.3, 270
ANGLE, K.L.
Magnetic Development of an Active Region. I, No.3, 271
ANZER, U.
On the Stability of Solar Filaments. I, No.3, 271
ATHAY, R.G.
Computed Profiles for Solar Mg b and Na D Lines. I, No.3, 272
BAHCALL, J.N.
Solar Neutrinos. I, No.3, 272
BAHCALL, N.A.
(See Bahcall, J.N., I, No.3, 272)
BAME, S.J.
(See Hirshberg, I, No.3, 279)
BARRON, W.R.
(See Castelli, I, No.3, 274)
BECKERS, J.M.
Chromospheric Inhomogeneities in Sunspot Umbrae. I, No.3, 272
(See Parnell, I, No.3, 289)
BEHRING, W.E.
Observations of the Sun and Laboratory Sources with a Three-Meter xuv Spectrograph. I, No.3, 272
BENTON, E.R.
Hydromagnetic Solar Spin Down. I, No.3, 273
BERTSCH, D.L.
Iron Nuclei in Solar Cosmic Radiation. I, No.3, 273
BHATNAGAR, A.
A New Technique to Obtain Solar-Velocity Maps Directly in One Spectroheliogram. I, No.3, 273
(See Howard, R., I, No.3, 279)
BOHLIN, J.D.
Solar Coronal Streamers: Spatial Locations and Associated Solar Phenomena. I, No.3, 273
(See Zirin, I, No.3, 297)
BROWN, D.R.
(See Linsky, I, No.3, 285)
BRUECKNER, G.E.
Calibration of Solar Magnetograms Obtained with Narrow-Band Birefringent Filters. I, No.3, 274
CANFIELD, R.C.
(See Athay, I, No.3, 272)
CASTELLI, J.P.
Statistical Considerations of Centimeter-Wavelength Solar-Burst Directivity. I, No.3, 274
(See Pasachoff, I, No.3, 289)
CHEVALIER, R.A.
The Excitation of the Coronal Lines of Fe XIII and Ca XV. I, No.3, 274
CLARK, A., Jr.
Solar Differential Rotation and Oblateness. I, No.3, 275
CLARK, P.A.
(See Clark, A., I, No.3, 275)
COHEN, L.
(See Behring, I, No.3, 272)
DODSON, H.W.
Solar Circumstances at the Time of the Cosmic-Ray Increase on 28 January 1967. I, No.3, 275
DOE, L.A.
(See Aikens, I, No.3, 270)
EDDY, J.A.
The Temperature Minimum from Far-Infrared Measurements. I, No.3, 275
EKERS, R.D.
(See Little, I, No.3, 285)
EMERSON, G.
Photometry of a White-Light Penumbral Brightening. I, No.3, 276
ENGVOLD, O.
(See Sheeley, I, No.3, 292)
EVANS, J.C.
Solar Line Formation in a Magnetic Field. I, No.3, 276
FELDMAN, U.
(See Zirin, I, No.3, 297)
FICHTEL, C.E.
(See Bertsch, I, No.3, 273)
FRAZIER, E.N.
Computer Display of Magnetograph Observations. I, No.3, 276
GAIZAUSKAS, V.
Solar Site Selection Based on Time-Lapse Photography of Granulation. I, No.3, 276
GARCIA, C.J.
(See Hansen, R.T., I, No.3, 278)
GEBBIE, K.B.
Recent Eclipse Data and the Solar Limb. I, No.3, 277
GILMAN, P.A.
(See Benton, I, No.3, 273)
(See Davies-Jones, I, No.3, 282)

GINGERICH, O.J.
A New Solar Model Atmosphere. I, No.3, 277
GREENSTADT, E.W.
The Oblique Shock of the Proton Flare of 7 July 1966. I, No.3, 277
HAGYARD, M.
(See Brueckner, I, No.3, 274)
HALL, D.N.B.
High-Resolution Solar Spectra between 1.2 and 24 microns. I, No.3, 277
HANSEN, R.T.
Brightness Variations of the White-Light Corona during the Years 1964-1967. I, No.3, 278

Differential Rotation of the Solar Electron Corona. I, No.3, 278
(See Bohlin, I, No.3, 273)
HANSEN, S.F.
(See Hansen, R.T., I, No.3, 278)
(See Hansen, R.T., I, No.3, 278)
HAUGEN, E.
On the Velocity Field in the Chromosphere close to Sunspots. I, No.3, 278
HEDEMAN, E.R.
(See Dodson, I, No.3, 275)
HIRAYAMA, T.
Line-Width Analysis of the Chromosphere and Quiescent Prominences. I, No.3, 279
HIRSHBERG, J.
A Solar Flare Disturbance as Observed in the Interplanetary Medium. I, No.3, 279
HOWARD, E.G.
Solar Radio Spectra of Type-IV Bursts. I, No.3, 279
HOWARD, R.
The Difference between the Spectra of Granular and Intergranular Regions. I, No.3, 279

Polar Magnetic Fields of the Sun from 1960-68. I, No.3, 280
HUBER, M.
Have Recent -value Measurements Changed the Observed Photospheric Solar Iron Abundance? I, No.3, 280
HUDSON, H.S.
Simultaneous x-Ray and Electron Emission from the Sun. I, No.3, 280
HUDSON, Hugh
De-occulation x-Ray Event of 2 December 1967. I, No.3, 280
HUNDHAUSEN, A.J.
(See Hirshberg, I, No.3, 279)
HYDER, C.L.
The Response of the Chromosphere to Rapidly Falling Material and Solar Flares, Plages, Etc. I, No.3, 281
INGHAM, W.
(See Hudson, Hugh, I, No.3, 280)
JANSSENS, T.J.
Optical and Radio 2B Flare of 8 August 1968. I, No.3, 281

Study of 2B Flare by Filtergrams -- H Alpha. I, No.3, 281
JANSSENS, T.J
(See Sourk, I, No.3, 293)
(See White, I, No.3, 295)
JONES, H.P.
Line Formation in Multidimensional Media. I, No.3, 281
DAVIES-JONES, R.
Interaction of Giant Convection Cells with the Differential Rotation. I, No.3, 282
JORDAN, S.D.
Why the Temperature Rise Does Not Occur in Radiative Equilibrium in Low Solar Chromosphere. I, No.3, 282
KAHLER, S.W.
Halo Structure of Solar Proton Events. I, No.3, 283
KALKOFEN, W.
(See Noyes, I, No.3, 288)
KATO, S.
Excitation of the Rossby-Type Waves in Solar Atmosphere. I, No.3, 283
KELLER, C.F.
(See Mutschlecner, I, No.3, 287)
KOOMEN, M.J.
Coronal Streamers Photographed on 27 and 29 April 1968. I, No.3, 283
KOPP, R.A.
(See Pneuman, I, No.3, 289)
KOZLOVSKY, B.
(See Weart, I, No.3, 295)
KRIEGER, A.S.
Results from the AS and E x-Ray Telescope on OSO-IV. I, No.3, 283
LAMBERT, D.L.
(See Chevalier, I, No.3, 274)
LEIGHTON, R.B.
A Model Study of Persistent Magnetic Regions. I, No.3, 284
LENA, P.J.
(See Eddy, I, No.3, 275)
LIN, R.P.
The Emission of 40-keV Electrons by the Sun. I, No.3, 284
(See Kahler, I, No.3, 283)
(See Hudson, H.S., I, No.3, 280)
LINSKY, J.L.
A Critical Evaluation of Temperature Determinations in the Low Solar Chromosphere as Obtained from the Ultraviolet Continuum Data. I, No.3, 285

A Recalibration of Solar Millimeter Brightness Temperatures Based upon Lunar Observations. I, No.3, 284)
LITTLE, L.T.
An Investigation of the Solar Wind by Interplanetary Scintillation. I, No.3, 285
LIVINGSTON, W.C.
Solar Rotation 1966-68. I, No.3, 285
(See Angle, I, No.3, 271)
(See Aikens, I, No.3, 270)
LOOMIS, H.G.
(See Hansen, R.T., I, No.3, 278)
(See Hansen, R.T., I, No.3, 278)
LOPER, D.
(See Benton, I, No.3, 273)

MacQUEEN, R.M.
(See Eddy, I, No.3, 275)
MALTBY, P.
A Model for the Penumbra of Sunspots. I, No.3, 285
MALVILLE, J.M.
On the Periodic Structure of Quiescent Prominence. I, No.3, 286
(See Emerson, I, No.3, 276)
MASLEY, A.J.
Solar Cosmic-Ray Activity in 1968. I, No.3, 286
McKENZIE, D.
(See Hudson, Hugh, I, No.3, 280)
MEISEL, D.D.
Lunar Occultation of Small x-Ray Plages during the 22 September 1968 Solar Eclipse. I, No.3, 286
MICHEL, F.C.
Magnetogravitational Instability. I, No.3, 287
MILKEY, R.W.
The Transport of Mechanical Energy in the Chromosphere. I, No.3, 287
MOE, O.K.
(See Maltby, I, No.3, 285)
MUSMAN, S.A.
Two-Dimensional Observations of Solar Oscillating Regions. I, No.3, 287
MUTSCHLECNER, J.P.
Semi-empirical Line Blanketing for Solar Model Atmospheres. I, No.3, 287
NAKAGAWA, Y.
(See Kato, I, No.3, 283)
(See Malville, I, No.3, 286)
(See Hyder, I, No.3, 281)
NEUPERT, W.M.
New Solar euv Emission Lines Observed during Flares by OSO-III. I, No.3, 287
NEWKIRK, G.
Magnetic Fields and the Structure of the Solar Corona. I, No.3, 288
NEWKIRK, G., Jr.
(See Bohlin, I, No.3, 273)
NOYES, R.W.
Observations and Interpretation of the Solar Lyman Continuum. I, No.3, 288
PARKINSON, W.H.
Measurements in the Solar Spectrum between 1400 and 1875 A with a Rocket-Borne Spectrometer. I, No.3, 288
PARNELL, R.
Analysis of Velocity Filtergrams. I, No.3, 289
PASACHOFF, J.M.
K-Line Profiles of Solar Fine Structure. I, No.3, 289

Radio Spectra and Related Observations of a Solar Active Region in July 1968. I, No.3, 289
PNEUMAN, G.W.
Coronal Streamer Configurations with Energy Transport. I, No.3, 289
PURCELL, J.D.
xuv Solar Features Observed on 22 September 1968. I, No.3, 290
(See Widing, I, No.3, 295)
RAMATY, R.
Gyrosynchrotron Radiation and Solar Microwave Bursts. I, No.3, 290
RAMSEY, H.E.
A Filter Magnetograph. I, No.3, 291
REAMES, D.V.
(See Bertsch, I, No.3, 273)
REEVES, E.M.
(See Parkinson, I, No.3, 288)
REID, J.H.
The Flare Videometer at the Manned Spacecraft Center, Houston. I, No.3, 291
REIDY, W.P.
Analysis of High-Resolution Solar x-Ray Photographs. II. Solar Active Regions. I, No.3, 291
ROELOF, E.C.
(See Kahler, I, No.3, 283)
RUST, D.M.
Comparisons of Photospheric Magnetograms and H-Alpha Filtergrams. I, No.3, 292
(See Musman, I, No.3, 287)
SAFFER, K.
(See Behring, I, No.3, 272)
SAWYER, C.
Transverse Motion of Chromospheric Mottles. I, No.3, 292
SCHATTEN, K.H.
Observations of a Coronal Streamer at 1 a.u. I, No.3, 292

The Solar Eclipse of 22 September 1968: Prediction and Observations. I, No.3, 292
SEAL, R.T.
(See Koomen, I, No.3, 283)
SHEELEY, N.R., Jr.
Spectroheliograms in Fe II 4924. I, No.3, 292
SIMON, M.
Time Dependence of Razin Spectra in Type-IV Solar Radio Bursts. I, No.3, 293
(See Weiss, I, No.3, 295)
SKALAFURIS, A.J.
Radiation-Driven Waves and the Structure of the Sun's Outer Temperature Profile. I, No.3, 293
SKUMANICH, A.
(See Jones, H.P., I, No.3, 281)
SLAUGHTER, C.D.
(See Aikens, I, No.3, 270)
SMITH, S.F.
(See Rust, I, No.3, 292)
SOURK, K.
Computer Processing of Solar Radio Maps and Television Images of the Sun. I, No.3, 293
STENFLO, J.O.
A Mechanism for the Buildup of Flare Energy. I, No.3, 293
(See Bhatnagar, I, No.3, 273)

STURROCK, P.A.
(See Van Hoven, I, No.3, 294)
SWITZER, P.
(See Van Hoven, I, No.3, 294)
TALLANT, P.E.
(See Beckers, I, No.3, 272)
TANDBERG-HANSSEN, E.
Observations of Magnetic Fields in Prominences Using Hydrogen, Helium, and Metal Lines. I, No.3, 293
THOMAS, J.H.
(See Clark, A., Jr., I, No.3, 275)
THOMAS, R.N.
(See Gebbie, I, No.3, 277)
TOUSEY, R.
(See Koomen, I, No.3, 283)
(See Purcell, I, No.3, 290)
ULRICH, R.K.
The Acoustic Properties of the Solar Surface. I, No.3, 294
(See Bahcall, J.N., I, No.3, 272)
VAIANA, G.S.
Analysis of High-Resolution x-Ray Photographs. I. An Importance 1N Flare. I, No.3, 294
(See Krieger, I, No.3, 283)
VAN HOVEN, G.
A Statistical Analysis of Flare Events and its Implications Concerning the Sun's Internal Rotation. I, No.3, 294
VAN SPEYBROECK, L.
(See Reidy, I, No.3, 291)
WEART, S.
The Birth of Active Regions. I, No.3, 295
(See Gebbie, I, No.3, 277)
(See Zirin, I, No.3, 297)
WEBER, E.J.
The Angular Velocity of the Solar Gas. I, No.3, 295
WEISS, N.O.
On the Magnetic Field in Pores. I, No.3, 295
WHITE, K.P., III.
An Example of Radio and Optical Homologous Flares. I, No.3, 295
(See Janssens, I, No.3, 281)
WIDING, K.
Brightness Temperatures in the Solar Ultraviolet Continuum: 1450-2080 A. I, No.3, 295
WILCOX, J.M.
Large-Scale Aspects of Solar Activity. I, No.3, 296
(See Schatten, I, No.3, 292)
WILSON, P.R.
Temperature Fluctuations and Convection in the Solar Photosphere. I, No.3, 296
WITHBROE, G.L.
OSO-IV Observations of uv Limb Brightening. I, No.3, 296
ZEHNPFENNIG, T.
(See Vaiana, I, No.3, 294)
ZIRIN, H.
High-Resolution Flare Observations. I, No.3, 296
Round-the-Clock Photoheliography. I, No.3, 297
(See Weart, I, No.3, 295)
(See Hudson, Hugh, I, No.3, 280)

Index of Notices - 1969

Card Catalogue of Reference Material for Eclipsing Variables. I, No.1, 167

The Henry Draper Catalog on Magnetic Tape. I, No.4, 373

Opportunity to Participate in the OAO-A2 Mission. I, No.1, 166

Resolution at the Seminar "Observation, Analysis and Space Research Applications of the Lunar Motion". I, No.1, 168

Visiting Scientists at the Arecibo Ionospheric Observatory. I, No.1, 165